#### Update on Final Alternatives

Advisory Committee June 2, 2006 Sacramento, California

#### Items to be Discussed

- Purpose of the Draft PEIR
- Incorporation of other assumptions and features in project-level analyses
- Features, phasing, and costs of Final Alternatives in Draft PEIR

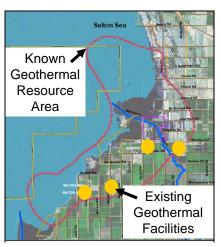
#### Purpose of the Draft PEIR

#### A Programmatic EIR:

- Allows for comparison of generalized alternatives with similar assumptions <u>and</u> with flexibility for a range of specific implementation plans to be evaluated in project-level analyses
- Does not address specific locations or final design criteria of facilities
- Allows for the selection of an approach that will be analyzed further in project-level analyses

# Assumptions or Features that could be Added in Project-Level Analyses

- Accommodations for future geothermal development
- Recreational opportunities
- Local land use developments to improve economy



#### Final Range of Alternatives

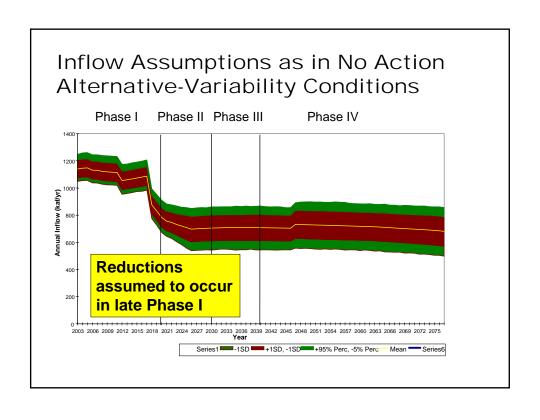
- No Action Alternative
- Alternative 1 Saline Habitat Complex I
- Alternative 2 Saline Habitat Complex II
- Alternative 3 Concentric Rings
- Alternative 4 Concentric Lakes
- Alternative 5 North Sea
- Alternative 6 North Sea Combined
- Alternative 7 Combined North and South Lakes
- Alternative 8 South Sea Combined

### Information Provided for Each Alternative

- Basic Assumptions
- Phasing Diagrams
- Capital Costs
- Operations & Maintenance Costs

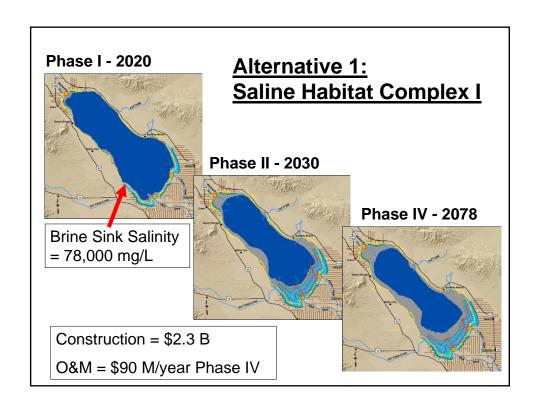
# Use of Inflow Assumptions for All Alternatives

- Average annual inflows of 717,000 acrefeet/year from 2018 to 2078
- Range of possible inflows to identify reliability of operations



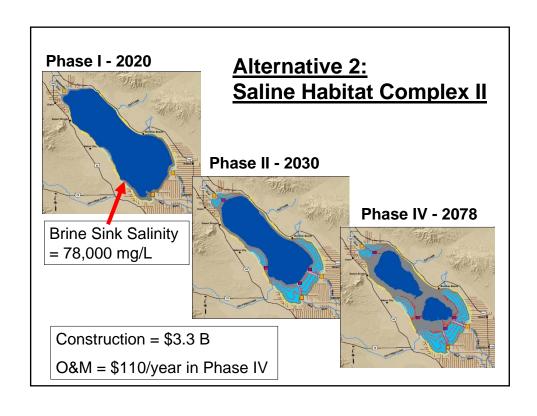
### Alternative 1: Saline Habitat Complex I

- Early Start Program with 2,000 acres of SHC along southern shoreline
- Pupfish Channel in agricultural fields
- Saltwater is pumped through temporary methods to start Saline Habitat Complex
- Control of inflows/outflows used to stabilize elevation and salinity
- ◆This alternative provides "lower bookend" for Saline Habitat Complex alternatives



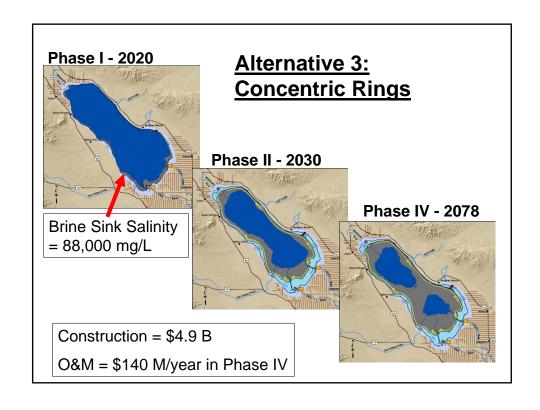
### Alternative 2: Saline Habitat Complex II

- Early Start Program with 2,000 acres of SHC along southern shoreline
- Pupfish connectivity in Shoreline Waterway
- Saltwater pumped from Brine Sink and last SHC cell to maintain salinity
- Control of inflows/outflows/saltwater used to stabilize elevation and salinity
- This alternative provides "upper bookend" for Saline Habitat Complex alternatives



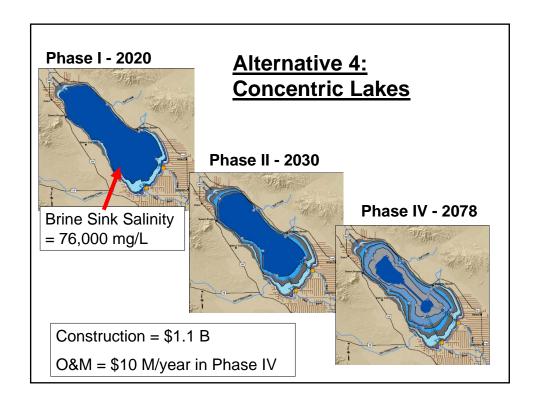
### Alternative 3: Concentric Rings

- Early Start Program with 2,000 acres of SHC along southern shoreline
- Pupfish connectivity in First Ring
- Control of inflows/outflows used to stabilize elevation and salinity
- Salinity
  - First Ring: 20,000 to 30,000 mg/L
  - Second Ring: 30,000 to 40,000 mg/L
- ◆No Saline Habitat Complex



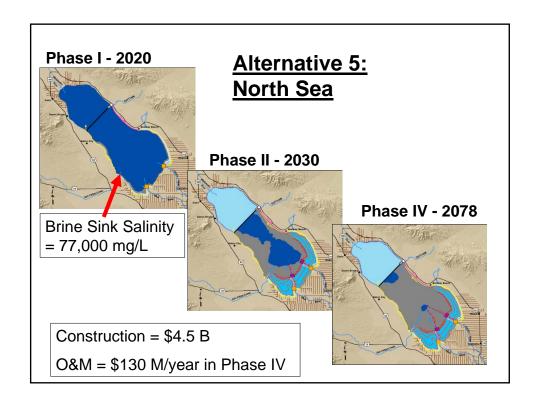
#### Alternative 4: Concentric Lakes

- Early Start Program with 2,000 acres of SHC along southern shoreline
- Pupfish connectivity in First and Second Lakes
- Control of inflows/outflows used to stabilize elevation and salinity
- ◆Salinity
  - First Lake: 20,000 to 30,000 mg/L
  - Second and Third Lake: 30,000 to 40,000 mg/L
- Habitat similar to Saline Habitat Complex



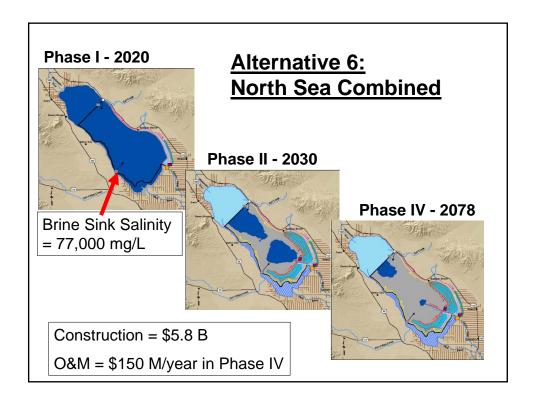
# Alternative 5: North Sea

- Early Start Program with 2,000 acres of SHC along southern shoreline
- Pupfish connectivity in Shoreline Waterway and Marine Sea
- Saline Habitat Complex along western, southern, and eastern shorelines



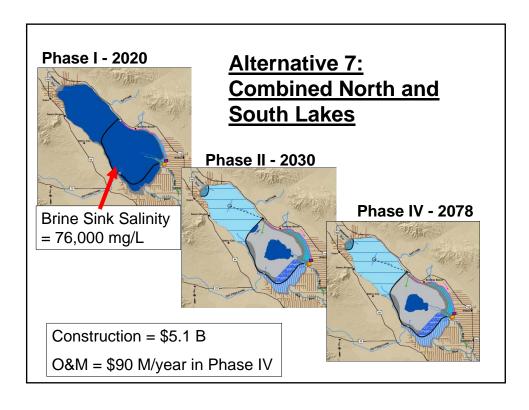
#### Alternative 6: North Sea Combined

- Early Start Program with 2,000 acres of SHC along southern shoreline
- Pupfish connectivity in Marine Sea, Marine Sea Mixing Zone, and agricultural fields
- Saline Habitat Complex along southern and eastern shorelines



# Alternative 7: Combined North and South Lakes

- Early Start Program with 2,000 acres of SHC along southern shoreline
- Pupfish connectivity in Recreational Estuary Lake, Recreational Saltwater Lake, and Marine Sea Recirculation Canal
- Saline Habitat Complex along eastern shoreline



### Alternative 8: South Sea Combined

- Early Start Program with 2,000 acres of SHC along southern shoreline
- Pupfish connectivity in Marine Sea
- Saline Habitat Complex near the western and eastern shorelines

